

## HASSELBLAD HC 3.5-4.5/50-110

### GENERAL LENS DATA:

Focal length	51.5 (108.3) mm
Aperture range	3.5 (4.5) - 32
Angle of view diag/hor/vert	69°/58°/46° (35°/29°/22°)
Length/diameter	152 mm/103 mm
Weight	1650 g
Filter diameter	95 mm

### CLOSE FOCUS RANGE DATA:

Minimum distance object to film	0.70 m
Maximum image scale	1:10.8 (1:5.2)
Corresponding area of coverage	60 x 45 (29 x 21) cm
Corresponding exposure reduction	0 f-stop



### COMPATIBILITY

The HC3,5-4,5/50-110 mm lens is not compatible with the converter 1.7x.

### LENS DESIGN

14 elements in 9 groups

### FOCUS TYPE

Front focusing

### ENTRANCE PUPIL POSITION

50 mm setting: 164 mm

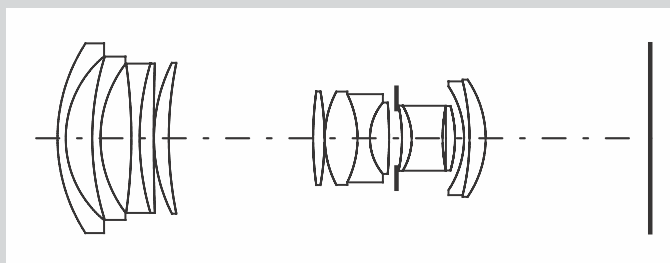
80 mm setting: 161 mm

110 mm setting: 173 mm

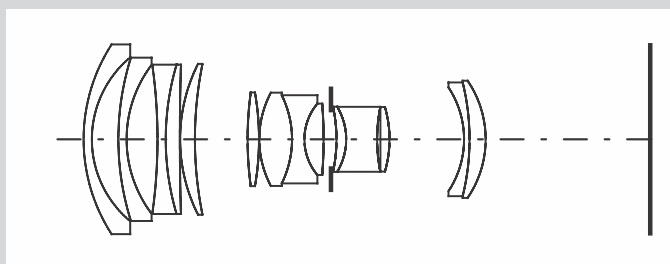
In front of the film plane  
(at infinite focus setting)

The entrance pupil position is the correct position of the axis of rotation when making a panorama image by combining individual images of a scene.

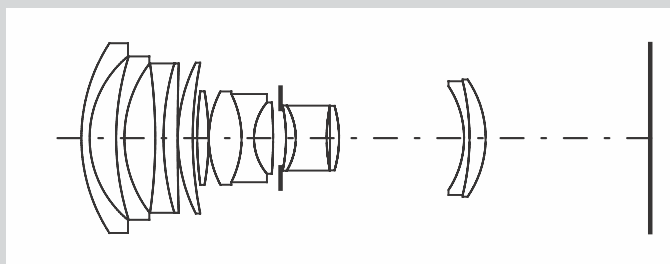
50 mm



80 mm



110 mm



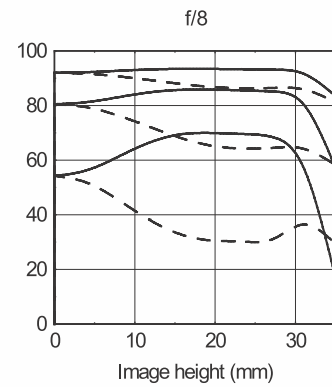
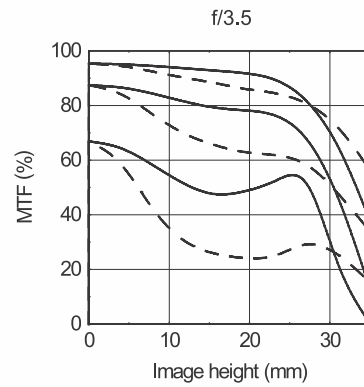
## HASSELBLAD HC 3.5-4.5/50-110

### MTF

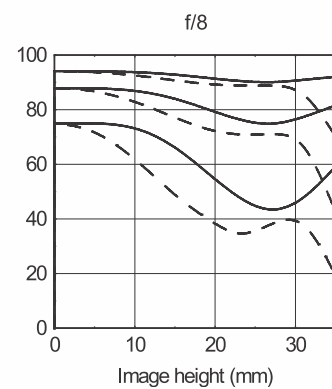
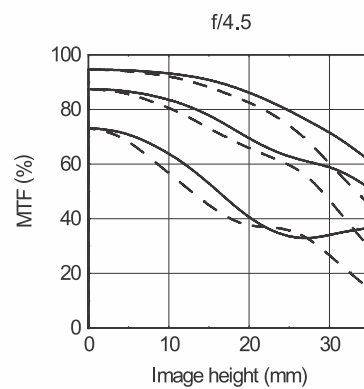
Modulation Transfer as a function of image height at infinite focus setting.

Sagittal slit orientation drawn with continuous line and tangential with dashed. White light. Spatial frequencies 10, 20 and 40 lp/mm

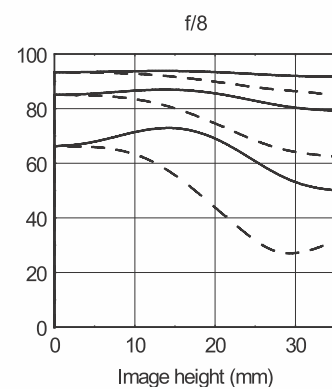
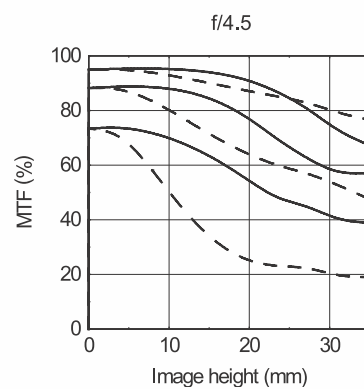
50 mm



80 mm



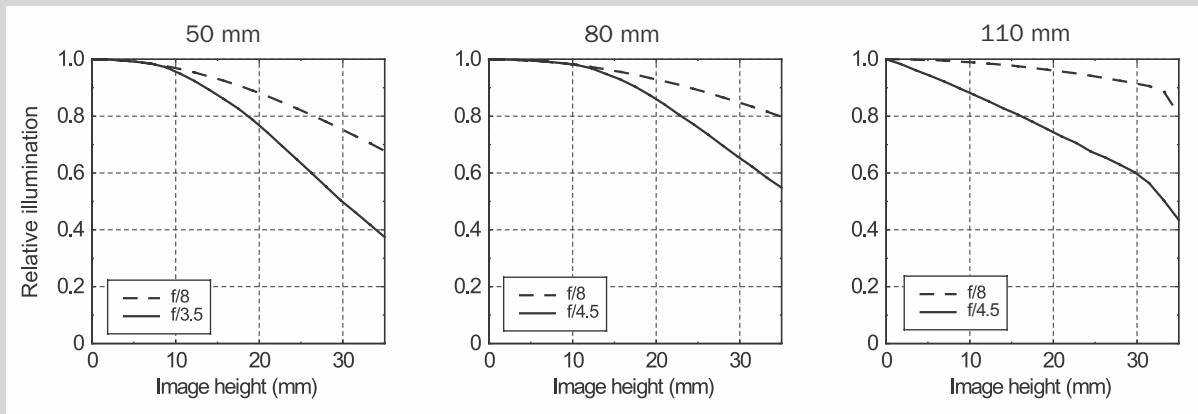
110 mm



## HASSELBLAD HC 3.5-4.5/50-110

### RELATIVE ILLUMINATION

Infinity setting



### DISTORTION

Infinity setting

